



# TANK KLEEN 414™

## TANK CLEANER

### ACTIVE INGREDIENTS:

Anionic and Nonionic Surfactants,  
Sequestering Agents and Other Ingredients . . . . . 100%

### KEEP OUT OF REACH OF CHILDREN WARNING

#### WILL CAUSE EYE INJURY - MAY CAUSE SKIN IRRITATION

Eye contact with product may cause burns and irritation. Avoid eye contact with product at all times. Effects of skin contact may include burns and irritation. Avoid prolonged and unnecessary skin contact with product. May cause burning pain in mouth, throat and abdomen and coughing and constriction of the throat, followed by nausea, vomiting, and diarrhea. Do not taste or swallow product. Not expected to be an inhalation hazard.

### FIRST AID

**Call a poison control center or doctor immediately for treatment advice.**

**If Swallowed:** Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.

### GENERAL INFORMATION

**Tank Kleen 414** is a powerful non-ammoniated spray tank cleaner. **Tank Kleen 414** will clean, rinse, and emulsify pesticide and adjuvant residues, and bond them to the rinse solution, to allow for complete rinsing, and system purging with ordinary water. **Tank Kleen 414** is tolerant to hard water, that causes spray tanks to accumulate high levels of residue.

**Tank Kleen 414** is soluble and compatible with most spray tank materials. **Tank Kleen 414** solubilizes acid residues of pesticides, preparing the spray tank for the use of other products. Solubilization of residue spray materials will prevent damage from occurring to non-target plants.

### DIRECTIONS FOR USE

#### • Large Volume Sprayers:

**Tank Kleen 414** is effective at dilution rates up to 1:400. One quart of **Tank Kleen 414** will treat up to 100 gallons of water. Adjust the dilution rate as needed for individual conditions. Each cleaning situation will vary and adjustments will be necessary. Be certain to circulate **Tank Kleen 414** treated solution through the spray system for 5-10 minutes. Use a high pressure sprayer or hose to rinse all interior areas and spray tank walls. Purge hoses, spray lines and nozzles for approximately one minute. After cleaning, drain system and rinse all tank and spray areas.

#### • Hand-Held and Back-Pack Sprayers:

Use approximately one ounce of **Tank Kleen 414** per gallon of water, agitate thoroughly, drain and follow with a clean water rinse.

**SPECIAL PRECAUTIONS / RINSATE TESTING:** The use of **Tank Kleen 414** or other Tank Cleaners does not guarantee removal and/or neutralization of all residues. Some pesticides, such as 2, 4-D and Dicamba, may leave persistent or hard-to-remove residues. Many variables exist which make consistent tank cleaning difficult (i.e., water quality, use of cleaning equipment, quantity and type of residue, age and condition of spray tank, spray lines, nozzles etc.). In order to ensure that all residues have been removed, apply a sample of the rinse water to sensitive plants (tomato, cotton, ornamentals, etc.) and after sufficient time, observe for wilting or severe stress. If stress occurs, repeat cleaning process and retest as above.

### STORAGE AND DISPOSAL

Protect From Freezing. Store above 32° F (0°C). Do not store near strong oxidizing materials, acids or chlorine. Do not reuse empty container. Dispose of container in a safe manner in accordance with federal, state and local regulations.

### WARRANTY

Townsend warrants that this product, when used as directed, is reasonably fit for use as designated on this label. Townsend makes no warranty of fitness or merchantability. Townsend's maximum liability for breach of this warranty shall not exceed the purchase price of this product. In no event shall Townsend be liable for indirect or consequential damages. This warranty shall not be changed by oral or written agreement unless signed by a duly authorized officer of Townsend.



Manufactured For:

**TOWNSEND CHEMICAL DIVISION**  
SELMA, INDIANA 47383

# TOWNSEND CHEMICAL DIVISION

IN CASE OF EMERGENCY CALL  
INFOTRAC: 1-800-535-5053

## MATERIAL SAFETY DATA

### 1. PRODUCT IDENTIFICATION

PRODUCT NAME: TANK KLEEN 414  
SYNONYMS: SPRAY TANK CLEANER  
CHEMICAL FAMILY: BLEND

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients:</u>	<u>CAS #</u>	<u>WT. %</u>	<u>OSHA PEL</u>	<u>ACGIH STEL</u>
Isopropanol	000067630	< 1 %	Not Available	Not Available
Butoxyethanol	000111762	< 1 %	25 mg/M <sup>3</sup>	25 mg/M <sup>3</sup>
Diethanolamine	000111422	< 0.1 %	Not Available	Not Available

### 3. EFFECTS OF OVEREXPOSURE:

**WARNING!** May cause skin and eye irritation.

PRIMARY ROUTES  
OF ENTRY:

Product may enter the body via eye contact, skin contact, and ingestion.

POTENTIAL HEALTH  
EFFECTS:

EYE:

Eye contact with product may cause burns and irritation. Avoid eye contact with product at all times.

SKIN:

Effects of skin contact may include burns and irritation. Avoid prolonged and unnecessary skin contact with product.

INGESTION:

May cause burning pain in mouth, throat and abdomen and coughing and constriction of the throat, followed by nausea, vomiting, and diarrhea. Do not taste or swallow product.

INHALATION:

Not expected to be an inhalation hazard, but may cause irritation to some individuals.

### 4. EMERGENCY FIRST AID

EYE:

IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. If easy to do, remove contact lenses. GET MEDICAL ATTENTION.

SKIN:

IMMEDIATELY flush skin with water for at least 15 minutes. If clothing is penetrated, immediately remove clothing and flush skin with water. Wash clothes before reuse. GET PROMPT MEDICAL ATTENTION IF IRRITATION OCCURS.

INGESTION:

GET IMMEDIATE MEDICAL ATTENTION. Call a physician or poison control center. Do not induce vomiting. If conscious, give victim 1-3 glasses of water or milk to dilute stomach contents.

INHALATION:

Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have trained person administer mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

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## 5. REACTIVITY DATA

STABILITY:	Stable under normal conditions.
HAZARDOUS POLYMERIZATION:	Hazardous polymerization will not occur.
MATERIALS TO AVOID:	Avoid contact with strong oxidizing agents – reactions can occur.
CONDITIONS TO AVOID:	See Section 9.
HAZARDOUS DECOMPOSITION PRODUCTS:	Incomplete combustion may produce carbon monoxide and other asphyxiants.

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## 6. PHYSICAL PROPERTIES

APPEARANCE:	Transparent Red Liquid
ODOR:	Fatty
VAPOR PRESSURE:	No Data
pH (neat @ 25 °C):	10.75 – 12.50
VAPOR DENSITY (Air=1):	No Data
BOILING POINT:	No Data
SPECIFIC GRAVITY:	1.06 @ 25° C
FREEZING POINT:	No Data
SOLUBILITY IN WATER:	Miscible
VISCOSITY:	No Data
VOLATILE ORGANIC %:	< 2 %
EVAPORATION RATE:	No Data

The physical data presented here are approximations, as the actual product's values may vary slightly.

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## 7. NFPA HAZARD RATING (National Fire Protection Association)

<b>HEALTH –2</b>	<b>FIRE – 1</b>	<b>REACTIVITY - 0</b>	<b>PERSONAL PROTECTION</b> - See Section 10
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NOTE: HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

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## 8. FIRE AND EXPLOSION HAZARD INFORMATION

### FLAMMABLE PROPERTIES:

FLASH POINT, PMCC:	> 200° F	> 93°C
AUTOIGNITION:	No Data	
FLAMMABILITY CLASS:	No Data	
LOWER EXPLOSIVE LIMIT (%):	No Data	
UPPER EXPLOSIVE LIMIT (%):	No Data	
HAZARDOUS COMBUSTION PRODUCTS:	Combustion products may include fumes, smoke, and carbon monoxide.	
EXTINGUISHING MEDIA:	Water spray, dry chemical, carbon dioxide, and foam. Use water spray to keep fire-exposed containers cool.	
FIRE FIGHTING INSTRUCTIONS:	Do not enter enclosed or confined workspaces without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available).	
UNUSUAL FIRE/EXPLOSION HAZARDS:	None known.	

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## 9. SPECIAL PRECAUTIONS

STORAGE CONDITIONS:	Store this product in a cool, dry, well-ventilated area away from direct sources of heat, sparks, ignition and flames. Do not store near strong oxidizing materials, acids, chlorine, bromine, and hypochlorite bleaches. Protect product from freezing.
GENERAL PRECAUTIONS:	Keep container tightly closed when handling or storing. Exercise exposure controls and always wear personal protection. See section 10. Wash thoroughly after handling.

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## 10. SPECIAL PROTECTION INFORMATION

SKIN PROTECTION:	Neoprene rubber or other chemical resistant material such as nitrile or viton may be used. Wear gloves, boots, and protective clothing as appropriate for the risk of exposure. Contact glove manufacturer for specific information.
EYE PROTECTION:	Always wear eye protection. Goggles or safety glasses with face / side shields are recommended.
RESPIRATORY:	If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: organic vapor.
VENTILATION:	Good general ventilation (typically 10 air changes per hour) should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

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## 11. SPILL OR LEAK PROCEDURES

ACTION:	Restrict persons not wearing protective equipment from areas of spills or leaks until cleanup is complete. Remove all ignition sources and ventilate area of spill or leak.
LARGE SPILL:	Prevent spill from entering streams, sewers, and waterways. Use dikes to contain spill. Flush spill area with water spray. Shovel, sweep, or vacuum spill and place in closed container for disposal according to local, state, and federal regulations.
SMALL SPILL:	Contain spilled liquid and shovel, sweep, or vacuum spill and place in closed container for disposal according to local, state, and federal regulations.

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## 12. TRANSPORTATION INFORMATION

Transportation Information:	
DOT Proper Shipping Name:	Compound, Cleaning Liquid 48580
DOT Hazard Class:	Not Applicable
Hazard Technical Name:	Not Applicable
DOT Shipping Label:	Not Applicable
UN/NA Number:	Not Applicable
Packing Group:	Not Applicable

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### 13. REGULATORY INFORMATION

SARA 302 Threshold

Planning Quantity: Not Applicable

SARA 304 Reportable Quantity: Not Applicable

SARA 311 Categories: Immediate (Acute) Health Effects: Y                      Y = Yes; N = No  
Delayed (Chronic) Health Effects: N  
Fire Hazard: N  
Sudden Release of Pressure Hazard: N  
Reactivity Hazard: N

SARA Title III – Section 313:

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: 2-Butoxyethanol

EPA Hazard Classification Code: Not Applicable

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals

Canadian DSL: The components of this product are listed on the Canadian Domestic Substances List

CERCLA: No chemicals in this product are subject to the reporting requirements of CERCLA

Short-term ecological effects are expected to be minimal when this product is diluted and used as directed. Large spills of the neat product may kill plants or induce a low growth rate, and may also kill animals and fish in the vicinity of the spill. It is recommended that this product be used in a manner consistent with its labeling and be used in an area where the run off and wash residue have minimal expected impact.

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The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.

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